MaggotTherapist

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OUR GOAL

- **We aim to build a utility for both Windows and Linux platforms that is capable of helping programmers writing their source code in the C programming language.**

- **This utility enables the programmer to develop much faster, as it automates error correction, linking and compilation tasks.**

What we learnt and showcased in the course of developing this project

- **This project demonstrates basic sequential constructs, both conditional and unconditional iterative constructs, effective usage of memory, dynamic memory allocation and memory management, and various other important programming aspects**

OUR APPROACH

- ## Detailed procedure/ Algorithm

Using file streams, and directory streams, we shall obtain all necessary target specifications such as working directory, and files.

We shall execute shell commands in a sub-shell using our C program to perform necessary compilation, linking and execution tasks. We shall perform automatic error correction, upon redirecting the obtained SYNTAX errors only, upon redirecting the standard error stream to a temperory system file. We shall extensively use this file for making any changes to the user's source file. We shall also create anathor file that keeps a track of all the changes made to the source file, and thus enabling the program to backtrack and revert any change made.

The sole purpose behind this project is to save some time for the programmer.

NOTE: This utility is not enabled to change more than one charecter at once and thus is not enabled to mess with the logic of the program.

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